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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/287,776 04/07/99 KANG

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EXAMINER

WM02/0323

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ART UNIT	PAPER NUMBER

2673
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/287,776

Applicant(s)

KANG ET AL.

Examiner

Jeff Piziali

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 April 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Blahut et al. (5,570,126).

Regarding claim 1, Blahut discloses a video overlay apparatus [Fig. 4; 314] comprising: a video scaler [Fig. 4; 432] operatively responsive to input video data; and a programmable switching mechanism [Fig. 4; 440], operatively coupled to the video scaler, to selectively route video data to one of a plurality of video overlay generators [Fig. 4; 414, 416 and 430] to facilitate selective display of overlay data on a display device (Column 6, Lines 39-49).

Regarding claims 2, 10 and 16, Blahut discloses the programmable switching mechanism includes a programmable register (Column 6, Lines 39-49).

Regarding claim 3, Blahut discloses a first display engine [Fig. 4; 432] responsive to first graphics data [Fig. 5; 520] for generating first video window timing data; a second display engine [Fig. 4; 432] responsive to second graphics data [Fig. 5; 530] for generating second video window timing data; a first video overlay generator [Fig. 4; 430] operatively responsive to the

first graphics data; and a second video overlay generator [Fig. 4; 414] operatively responsive to the second graphics data (Column 9, Lines 15-29).

Regarding claims 4 and 11, Blahut discloses a graphics data unpacker [Fig. 4; 420] operative to unpack graphics data received from a respective display engine; a keyer [Fig. 4; 440] operatively coupled to the graphics data unpacker and responsive to selectively route video data from the programmable switching mechanism; and a data packer [Fig. 4; 444] operatively coupled to the keyer to pack combined video and graphics data from the keyer (Column 6, Lines 21-49).

Regarding claims 5 and 19, Blahut discloses the programmable switching mechanism includes a selectable video clock source [Fig. 4; "Still-Frame" and "Full-Motion"] operatively coupled to the video scaler wherein the video scaler scales input video corresponding to a display engine for at least one of a plurality of video overlay generators in response to a video clock signal output from the selectable video clock source (Column 6, Lines 21-49).

Regarding claims 6, 12 and 20, Blahut discloses the programmable switching mechanism further facilitates programming of frame buffer space for each display engine based on which video overlay generator has been selected to receive input video (Column 7, Lines 24-44).

Regarding claims 7, 13 and 21, Blahut discloses the selectable video clock source includes a programmable switch to facilitate switching between a plurality of display dependent

clock signals [Fig. 4; "Still-Frame" and "Full-Motion"] that are selectively coupled to a common video scaler line buffer (Column 6, Lines 21-49).

Regarding claims 8, 14 and 22, Blahut discloses a user interface [Fig. 1; 132] operable to control the programmable switching mechanism to facilitate selective overlay display on a per application basis (Column 4, Lines 48-57).

Regarding claim 9, the limitations were previously addressed in the above rejection of claims 1, 3, 5 and 19.

Regarding claim 15, the limitations were previously addressed in the above rejection of claim 1.

Regarding claim 17, the limitations were previously addressed in the above rejection of claim 3, furthermore Blahut discloses generating a first video overlay [Fig. 5; "Background"] based on the first graphics data and at least a portion of selectively routed input video data; and generating a second video overlay [Fig. 5; 550] based on the second graphics data and at least a portion of selectively routed input video data (Column 7, Lines 24-44).

Regarding claim 18, the limitations were previously addressed in the above rejection of claims 4 and 11, furthermore Blahut discloses keying [Fig. 4; 440] video and graphics data from a respective display engine and the selectively routed video data selectively routed by a

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programmable switching mechanism; and packing [Fig. 4; 444] combined video and graphics data for each respective video graphic overlay generator for alternate output to the display (Column 6, Lines 21-49).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Munson (5,369,617), Mead (5,644,363), Klingelhofer (5,673,204), Kesatoshi (5,874,937) and Han (6,175,387) are cited to further evidence the state of the art regarding video overlay devices and methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-6606 for regular communications and (703) 308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



J.P.

March 21, 2001



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